What Is Claimed Is:

| 1 | 1. A test unit for an aircraft cabin telephony system, comprising: |
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| 2 | a pair of connectors for inserting the test unit in-line within the system; |
| 3 | an AC voltage module operative to indicate the presence of an AC voltage |
| 4 | when the test unit is connected to the Cabin Delivery System connector of the |
| 5 | cabin telephony system; |
| 6 | a signal module operative to detect the presence of data signals when the |
| 7 | test unit is connected to the Cabin Delivery System connector; |
| 8 | a DC power module operative to indicate the presence of DC voltage when |
| 9 | the test unit is connected to a seat telephony box within the cabin telephony |
| 10 | system; and |
| 11 | an AC current module operative to detect an over-current condition when |
| 12 | the test unit is connected to the Cabin Delivery System connector of the cabin |
| 13 | telephony system. |
| 1 | 2. The test unit of claim 1, further comprising: |
| 2 | a relay bank operative to selectively couple the AC voltage module, signa |
| 3 | module, and DC power module to the pair of connectors as a function of the AC |
| 4 | voltage present on the connectors. |
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| 1 | 3. The test unit of claim 2, wherein the signal module comprises |
| 2 | means for detecting the presence of E1 signals. |

| 1 | 4. The test unit of claim 3, wherein the AC voltage module |
|---|--|
| 2 | comprises: |
| 3 | an AC voltage detect unit having |
| 4 | a window comparator, and |
| 5 | a current source coupled to the comparator. |
| | |
| | |
| 1 | 5. The test unit of claim 4, wherein the signal module comprises: |
| 2 | an inbound E1 signal module configured to detect the presence of inbound |
| 3 | E1 signals; and |
| 4 | an outbound E1 signal module configured to detect the presence of |
| 5 | outbound E1 signals. |
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| 1 | 6. The test unit of claim 5, wherein each of the E1 signal modules |
| 2 | comprises: |
| 3 | a monostable multivibrator configured to lengthen the duration of the |
| 4 | pulses of the E1 signal. |